

**AMENDMENTS TO THE SPECIFICATION:**

Please add the following new paragraphs after paragraph [0072]:

FIG. 14a is a perspective and schematic view of an exemplary illustrative non-limiting optical system using a spectral filter together with a detector.

FIG 15 is a schematic example of the transmission spectrum through the exemplary illustrative non-limiting transmission bandpass filter.

FIG. 16 is a schematic example of the transmission spectrum through the exemplary illustrative non-limiting transmission band blocking filter.

FIG. 17 is a schematic example of the reflection spectrum through the exemplary illustrative non-limiting reflection bandpass filter.

FIG. 18 is a schematic example of the reflection spectrum through the exemplary illustrative non-limiting reflection band blocking filter.

FIG. 19 is a schematic cross-sectional drawing illustrating the exemplary illustrative non-limiting filter with modulated waveguide sections separated by unmodulated waveguide section which comprises the spacing resulting in 180 degrees phase shift.

FIG. 20 is a schematic cross-sectional drawing illustrating the exemplary illustrative non-limiting filter with segments of waveguide diameter modulation of different periods of modulation.

FIG. 21 is a schematic cross-sectional drawing illustrating the exemplary illustrative non-limiting filter with tapered waveguides.